

Proposed Hydroelectric Facility Jennings Randolph Dam / Reservoir



- New Intake Structure (redundant and independent)
- Tunnel & Penstock (piping to powerhouse);
- Powerhouse (2 turbines, 13 megawatts); and
- Transmission Line (not shown)

Current Operations

- **Controlled by Army Corps of Engineers**
 - **Flood Control**
 - About 28% of reservoir (above normal operating limit) is for flood control
 - **Downstream Water Supply**
 - About 33% of reservoir is owned by water suppliers
 - Only two releases have been made for water supply, one was to dilute pollution downstream
 - Typical Release Amounts:
 - 300 cfs (target);
 - 200 cfs (low flow);
 - 120 cfs (drought conditions)
 - **Improve Water Quality of North Branch Potomac**
 - About 39% of reservoir is for water quality
 - Releases for water temperature (55° F), D.O. and pH
 - **Recreation**
 - Prearranged Releases (when excess water is available)
 - Fishing via wading and boating
 - Whitewater boating

FERC Approved Studies

- **Water Quality**
 - Modeling of the proposed intake structure (to ensure it can provide desired water quality releases)
- **Fish Entrainment and Impingement**
 - Analysis of expected fish entrainment (at the intake structure)
- **RTE and Special Status Species**
- **Wetland Mapping and Characterization**
- **Hydraulic Modeling**
 - Modeling to predict any changes that may result from discharging water at the new location

Releases Will Not Change

- ACOE will continue to decide when releases occur and how much water will be released;
- New intake structure is being modeled so it's capable of meeting the same water quality parameters as the ACOE's intake structure;
- Project will only operate when water is available

Hydraulic Study

- Changes in flows / velocities
- Potential for stream bank erosion
- Changes in water depth

* to determine possible affects on discharges of water from proposed location vs. current location; affect on fish (including trout); etc.

FERC Licensing Timeline

- March 19, 2008 – Applicant filed their Notice of Intent / Pre-Application Document
- March 2008 to January 2009 – Applicant, FERC and Stakeholders worked on Study Plans
- February 15, 2009 – FERC issued their Study Plan Determination
- 2009 through Present – Completing Studies
- June 9, 2010 – Applicant to request 401 water quality certification from MD and WVA
- October 11, 2010 – FERC will issue Environmental Analysis
- April 24, 2011 – FERC to issue license order